URN etd-0407109-183718-1437
Author Yung Chun Hung
Author's Email Address No Public.
Statistics This thesis had been viewed 40 times. Download 0 times.
Department
Year 2003
Semester 1
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title Using Rough Sets to Predict Business Financial Crisis-Empirical Evidence from Taiwan Stock Market
Date of Defense 0000-00-00
Page Count 120

Keyword
Financial Crisis
Rough Sets
Discriminant Analysis

Abstract

The purpose of this article is expecting to obtain relevant information from Taiwan stock market to predict the possible financial crisis of a company and provide the necessary protection for himself or the relevant people in advance. As financial crisis is often considered to be an important issue for every corporation, how can we use the market related information to predict the company financial crisis in advance, the development of an effective warning model has become interesting topics to lots of researchers.

In Ditmitras（1996）survey, we know the Discriminant analysis model is the most widely used prediction model by all researchers. In this paper, we focus on improving the prediction rate through the Rough Sets model. It could data reduction systematically to avoid statistical analysis' assumption, and then compare to linear regression, stepwise regression and discriminant analysis.

The empirical results the whole prediction rate from the Rough Sets can reach 100% for the year before the real failure happened and the average prediction rate can reach 94.79% for all three years before the failure happened.

Results from the Rough Sets are better than the ordinary prediction models. We hope to construct an exact prediction model and overcome the statistical limitation of data by Rough Sets. Applying the same technique, we can expect that the Rough Sets prediction can be successfully applied into different research fields.
Advisory Committee Pai Chou Wang - advisor

Files No Any Full Text File.
Date of Submission 2004-08-05